

•Work Order ID 78177

January-02-12 8:48:55 AM

78177

Page 1

Item ID: D350-794-011

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Auxiliary Fuel Tank

Start Date: 02/01/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 13/02/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: M.C.J. Date: 12/01/02 Tooling:

Run Start *NR1*

QC: Date: SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr

Revision Nbr

IIN-D350-794

C

100

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPPD350-794-011

CHG003

6/2/02

Handwritten: M.C.J. 12-1-30 (V)

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

Handwritten: 6/2/02

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

Handwritten: 6/2/02

Handwritten: (X)

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

H:\FORMS\Quality Assurance\approved QAINCRWO RevE

Work Order ID 78177

78177

Page 2

January-02-12 8:48:55 AM

Item ID: D350-794-011

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Auxiliary Fuel Tank

Start Date: 02/01/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 13/02/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start *NR1*

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
130	Packaging								
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPPD350-794-011								
	Location: _____								
	PPP Rev: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

12/2/3

ME
12-02-02

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____
 Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Picklist Print

January-02-12 8:48:59 AM

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Work Order ID: 78177

78177

Parent Item: D350-794-011

D350-794-011

Parent Item Name: Auxiliary Fuel Tank

Start Date: 02/01/2012

Required Date: 13/02/2012

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A 10.05.17 ECN10-562 DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D350-794-013

CHLXES

Manufactured No

110

Each

1.0000

****** 1 1

78339

[Signature]

D350-794-013

Auxiliary Fuel Tank Provisions

Location

Loc Qty

Loc Code

ST

1

75357

1

110

Each

0.0000

****** 1

78179

[Signature] 12/01/3

D350-794-041

CHLXES

Manufactured No

D350-794-041

Tank Assembly

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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DART AEROSPACE LTD.

IIN-D350-794

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4.0 ELECTRICAL LOAD

The electrical load effect for each aircraft must be assessed as follows.

Component	Load
Fuel Pump	3.00 Amps
Fuel Gauge	0.45 Amps
Fuel Sender	0.13 Amps
Total Installation	3.58 Amps = 100 Watts

5.0 WEIGHT AND BALANCE

The following is the weight increase associated with the Aux Fuel Tank Installation. Be sure to subtract the weight of any parts or material removed.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-794-011 Auxiliary Fuel Tank (AS350 models)	29.8 lb 13.5 kg	-22.0 in -0.56 m	-655.6 in-lb -7.56 m-kg	126.0 in 3.20 m	3754.8 in-lb 43.2 m-kg
D350-794-013 Auxiliary Fuel Tank Provisions (AS350 models)	5.5 lb 2.5 kg	-14.6 in -0.37 m	-80.3 in-lb -0.93 m-kg	163.4 in 4.15 m	898.7 in-lb 10.4 m-kg
D130-794-021 Auxiliary Fuel Tank (EC130 models)	29.8 lb 13.5 kg	-23.6 in -0.60 m	-703.3 in-lb -8.1 m-kg	126.0 in 3.20 m	3754.8 in-lb 43.2 m-kg
D130-794-023 Auxiliary Fuel Tank Provisions (EC130 models)	5.5 lb 2.5 kg	-16.1 in -0.41 m	-88.6 in-lb -1.03 m-kg	163.4 in 4.15 m	898.7 in-lb 10.4 m-kg

6.0 PARTS LIST

Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Part Number	Superseded Part Numbers	Description
X					D350-794-011		AUXILIARY FUEL TANK (AS 350 SERIES)
1	X				D350-794-013		AUXILIARY FUEL TANK PROVISIONS (AS 350 SERIES)
		X			D130-794-021		AUXILIARY FUEL TANK (EC 130 SERIES)
		1	X		D130-794-023		AUXILIARY FUEL TANK PROVISIONS (EC 130 SERIES)
1		1		X	D350-794-041		TANK ASSEMBLY
				1	D4055-041	JCA/M47-1-01A	FUEL TANK
	1		1		D4022-041	A8150-B1-JCA	FUEL TRANSFER PUMP ASSEMBLY
				1	D4023-1	ER281	FUEL CAP
	1		1		D4002-5	JCA-M47-2-13	SUPPLY HOSE - FROM AUX TANK
	1		1		D4003-047	JCA-M47-2-16	FUEL PUMP INLET PIPE
	1		1		D4002-7	JCA-M47-2-25	SUPPLY HOSE - PUMP TO MAIN TANK FILLER NECK
				1	D4002-041	JCA-M47-1-13	DRAIN HOSE ASSEMBLY - FRONT
				1	D4002-043	JCA-M47-1-16	DRAIN HOSE ASSEMBLY - REAR
				2	MS20822-3D		UNION
	1		1		AN832-6D		BULKHEAD UNION
				1	AN816-6D		STRAIGHT FITTING
	2		2		AN924-6D		NUT (ALTERNATE AS5178D06)
	2		2		NAS1149D0963J		WASHER

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Revision: C

Date: 10.01.25

REFERENCE ONLY

DART AEROSPACE LTD.

IIN-D350-794

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Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Part Number	Superseded Part Numbers	Description
				1	MS20822-8D		90° FITTING
	2		2		AN815-6D		UNION
	2		2		MS29512-06		ORING
	1		1		D4022-3	05-00021	FUEL PUMP MOUNTING BRACKET
	2		2		AN3-4A		BOLT
	2		2		MS21042-3		NUT
	2		2		AN970-3		WASHER
	1		1		D4008-043	JCA-M47-2-29	FUEL PUMP SPLASH GUARD
	1		1		D4004-7	N3	HOSE CLIP
				2	D4009-041	JCA-M47-4-01	BONDING BRAID
				1	D4008-041	JCA-M47-2-26	AUXILIARY TANK FILLER SPLASH GUARD
	4		4		AN525-10R6		SCREW
	1		1		D4001-3	AN832-6D-JCA	BULKHEAD FITTING - MODIFIED
	7		7		CR3212-5-5		CHERRY MAX RIVET
	18		18		CR3213-4-3		CHERRY MAX RIVET
	4		4		CR3212-4-3		CHERRY MAX RIVET
	12		12		MS20470AD4-6		RIVET
	32		32		MS20470AD3-4		RIVET
	16		16		MS20470AD5-6		RIVET
	6		6		MS20470AD5-8		RIVET
	9		9		CR3213-5-2		CHERRY MAX RIVET
	6		6		CR3212-5-4		CHERRY MAX RIVET
	3		3		CR3212-5-3		CHERRY MAX RIVET
	10		10		CR3212-5-2		CHERRY MAX RIVET
							Vent Assembly Parts
	2		2		MS21919WDG-8		CLAMP
	1		1		D4003-11	JCA-M47-2-21	VENT PIPE - TANK
			1		D4027-041	JCA-M47-2-20	VENT CLAMP ASSEMBLY
	1		1		D4003-049	JCA-M47-2-17	VENT PIPE - TANK
	1		1		D4027-043	JCA-M47-2-35	VENT CLAMP ASSEMBLY
	1		1		D4063-3	193-8	VENT HOSE
	2		2		2000-8S		HOSE CLAMP
	1		1		NAS43DD3-32N		SPACER
	1		1		MS35207-267		SCREW
	2		2		MS35207-264		SCREW
	3		3		NAS1149D0332J		WASHER
	3		3		MS21042-3		NUT
				3	TBA28B		CABLE TIE FASTENER
				1	TY25MX		TIE WRAP
	1		1		MS21919WDG-6		CLAMP (RUBBER REMOVED)
	1		1		D4009-041	JCA-M47-4-01	BONDING BRAID ASSEMBLY
							Restraint Assembly Parts
	1		1		D4005-1	JCA-M47-2-03	REAR RESTRAINT ANGLE/GUTTER
	1		1		D4004-11	JCA-M47-2-11	TOP STRAP ATTACH BRACKET
	1		1		D4004-5	JCA-M47-2-23	BOTTOM STRAP ATTACH BRACKET
	3		3		MS24694-S50		SCREW
	3		3		MS21042-3		NUT
	3		3		NAS1149F0363P		WASHER
	1		1		D4024-041	JCA/ASSO/MIN	ANCRA RESTRAINT STRAP
	1		1		D4004-041	JCA-M47-2-19	SIDE RESTRAINT ANGLE
	1		1		D4007-3	JCA-M47-2-18	TOP SUPPORT BRACKET
	1		1		D4006-041	JCA-M47-2-01	TANK TOP SUPPORT ASSEMBLY

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Revision: C

Date: 10.01.25

Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Part Number	Superseded Part Numbers	Description
	2		2		AN4-5A		BOLT
	2		2		NAS1149F0463P		WASHER
	1		1		D4005-041	JCA-M47-2-22	Locker Preparation Parts FORWARD FLOOR GUTTER
	1		1		D4063-1	193-6	DRAIN HOSE
	1		1		MS21919WDG-9		CLAMP
	1		1		MS35207-264		SCREW
	1		1		NAS1149D0332J		WASHER
	1		1		MS21042-3		NUT
	1		1		2000-6S		HOSE CLAMP
	3		3		NAS1474-08		SEALED CAPTIVE ANCHOR NUT
	1		1		D4005-11	JCA-M47-2-12	FINISHING STRIP
	4		4		MS21059-L08		ANCHOR NUT
	7		7		AN525-832R6		SCREW
	1		1		D8-603		Electrical Parts 6.3A ECF FUSE (ALTERNATE HA23-6U3)
	1		1		D1-205		2.5A ECF FUSE (ALTERNATE HA21-2U5)
	1		1		MS35058-23		SWITCH
	1		1		107-964		CONNECTOR RECEPTACLE
	1		1		107-978		CONNECTOR BACKSHELL (ALTERNATE 105-5465)
	1		1		107-943		CONNECTOR PLUG
				1	D4025-1	VDO-M47-JCA	FUEL QUANTITY SENDER
	4		4		MS35206-217		SCREW
	4		4		NAS1149FN416P		WASHER
	4		4		MS21044N04		NUT
	1		1		143-207		PLUG
	1		1		143-208		RECEPTACLE
	1		1		143-204		RECEPTACLE HOUSING (ALTERNATE 973-1490)
	1		1		143-203		PLUG HOUSING (ALTERNATE 973-1482)
	5		5		143-219		CRIMP PIN (ALTERNATE 977-3800)
	5		5		143-217		CRIMP SOCKET (ALTERNATE 977-3797)
	1		1		D4009-041	JCA-M47-4-01	BONDING BRAID ASSEMBLY
	1		1		D4026-041	FL-100-R-JCA	FUEL GAUGE
	2		2		AN525-832R6		SCREW - GROUND STUD
	2		2		NAS1149FN832P		WASHER
	2		2		MS21042-08		NUT
	1		1		444-2556		GAUGE MASTER SWITCH
	1		1		D4022-5	3775628	THERMAL SWITCH (125°) - FARNELL (ALTERNATE 100-6847)
	1		1		AN5800-1		General PLACARD HOLDER
	1		1		AN929-6D		BLANK CAP
			3		MS35207-264		Additional EC 130 Parts SCREW
			3		NAS1149D0332J		WASHER
			3		MS21042-3		NUT
			1		D4027-041	JCA-M47-2-20	VENT CLAMP ASSEMBLY
			1		D4004-043	JCA-M47-2-04	SIDE RESTRAINT ANGLE AND TIE DOWN POINT

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Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Part Number	Superseded Part Numbers	Description
			1		D4005-5	JCA-M47-2-06	ANGLE
			4		D4005-7	JCA-M47-2-07	ANGLE
			1		D4005-9	JCA-M47-2-08	ANGLE
			1		D4007-1	JCA-M47-2-02	TOP SUPPORT BRACKET
			1		D4005-3	JCA-M47-2-05	FORWARD RESTRAINT BEAM
			2		AN4-6A		BOLT
			1		D4007-5	JCA-M47-2-24	PACKER
			60		MS20470AD4-4		RIVET
			30		MS20470AD4-6		RIVET
			10		CR3213-4-3		CHERRY MAX RIVET
			10		CR3213-4-2		CHERRY MAX RIVET
							Placards
	1				D3997-1	JCA-M47-P1	FUEL QUANTITY - AS 350 MODELS
			1		D3997-3	JCA-M47-P2	FUEL QUANTITY - EC 130 B4 MODEL
	1		1		D3997-5	JCA-M47-P3	AUX FUEL DRAIN
	1		1		D3997-7	JCA-M47-P4	AUX FUEL TRANSFER PUMP
	1		1		D3997-9	JCA-M47-P5	AUX FUEL
	1		1		D3997-11	JCA-M47-P6	WEIGHT AND BALANCE
	1		1		D3997-13	JCA-M47-P7	ON/OFF
	1		1		D3997-15	JCA-M47-P8	CHECK LOCKER TANK
	1		1		D3997-17	JCA-M47-P9	STOWAGE PROHIBITED
	1		1		D3997-19	JCA-M47-P10	TANK VENT
	1		1		D3997-21	JCA-M47-P13	SWITCH FIXED
	1		1		D3997-23	JCA-M47-P14	AUX FUEL
	1				D3997-25	JCA-M47-P15	CONVERSION CHART - AS 350 MODELS
			1		D3997-27	JCA-M47-P16	CONVERSION CHART - EC 130 B4 MODEL
	1		1		D3997-29	JCA-M47-P17	DO NOT OVERFILL WARNING
	1		1		D3997-31	JCA-M47-P18	ON/OFF
	1		1		D3997-33	JCA-M47-P19	AUX GAUGE FACE
	1		1		D3997-35	JCA-M47-P20	AUX FUEL GAUGE
	1		1		D3997-37	JCA-M47-P21	6.3 A CIRCUIT BREAKER
	1		1		D3997-39	JCA-M47-P22	2.5A CIRCUIT BREAKER
	1		1		D3997-41	JCA-M47-P23	AUX TANK NOT FITTED
	1		1		D3997-43	JCA-M47-P24	EARTH